

10/522,990

STM-Structure Search
8/29/07

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L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:884510 CAPLUS

DOCUMENT NUMBER: 138:189398

TITLE: Bis(rylenedicarboximide)-a,d-1,5-diaminoanthraquinones
as unique infrared absorbing dyes

AUTHOR(S): Kohl, Christopher; Becker, Stefan; Muellen, Klaus

CORPORATE SOURCE: Max-Planck-Institut fuer Polymerforschung, Mainz,
D-55128, Germany

SOURCE: Chemical Communications (Cambridge, United Kingdom)
(2002), (23), 2778-2779

CODEN: CHCOFS; ISSN: 1359-7345

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138:189398

AB The preparation of a hitherto unknown class of dye compds. exhibiting three key
characteristics, namely absorption in the near IR (NIR) region, high
photostability and good processability, is described.

IT 497946-31-3P

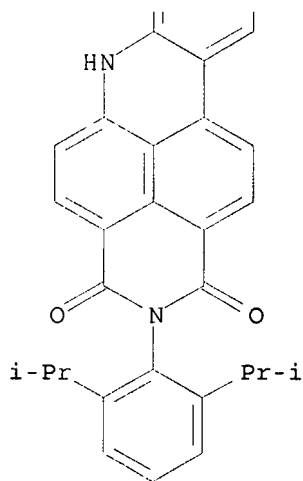
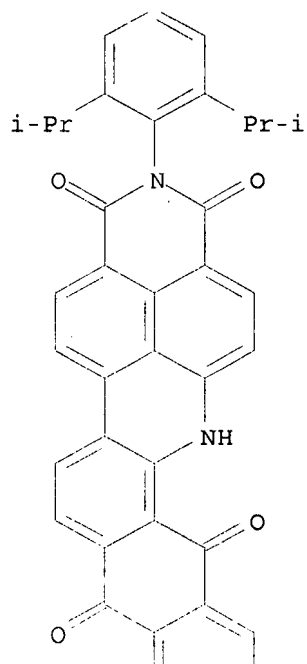
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or
engineered material use); PREP (Preparation); USES (Uses)

(dye; preparation of anthraquinone rylenedicarboximide derivative
near-IR-absorbing dyes)

RN 497946-31-3 CAPLUS

CN Dibenz[lmn,l'm'n']anthra[1,2-c:5,6-c']di[2,8]phenanthroline-
1,3,7,12,14,18(2H,6H,13H,17H)-hexone, 2,13-bis[2,6-bis(1-
methylethyl)phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1974:16448 CAPLUS
 DOCUMENT NUMBER: 80:16448
 TITLE: Vat dyes
 INVENTOR(S): Schuhmacher, Alfred; Schmidt, Helmut
 PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG
 SOURCE: Ger. Offen., 9 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent

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LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2212370	A1	19730920	DE 1972-2212370	19720315
IT 979804	B	19740930	IT 1973-48731	19730312
FR 2175957	A1	19731026	FR 1973-8855	19730313
JP 49003926	A	19740114	JP 1973-29554	19730315

PRIORITY APPLN. INFO.: DE 1972-2212370 A 19720315

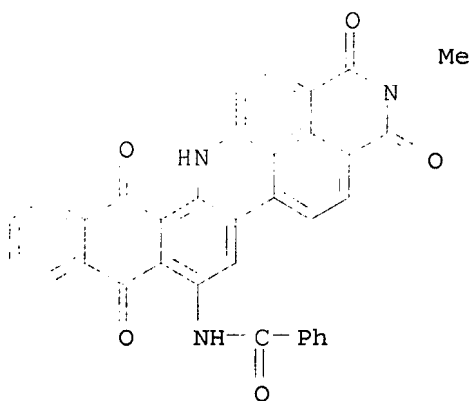
AB The vat dyes I (R = PhN:NC₆H₄, Me, Ph, or Et; R₁ .neq. R₂ = H or BzNH), used to dye cotton textiles fast shades, were prepared by cyclization of the anthrimides II by heating in ethanolamine [141-43-5] or ethylenediamine [107-15-3] containing alkaline substances, e.g. potassium carbonate [584-08-7]. Thus, heating II (R = Me, R₁ = BzNH, R₂ = H) 35, HOCH₂CH₂NH₂ 100, and K₂CO₃ 30 parts 3 hr at 115.deg., pouring the melt into 1000 parts H₂O, and blowing air into the mixture gave 34 parts vat dye (I, R = Me, R₁ = BzNH, R₂ = H) [49630-09-3] dissolving in H₂SO₄ to give a red solution and dyeing cotton fast green shades. Four other I were similarly prepared

IT 49630-09-3P 50381-00-5P 50381-01-6P
50618-21-8P

RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

RN 49630-09-3 CAPLUS

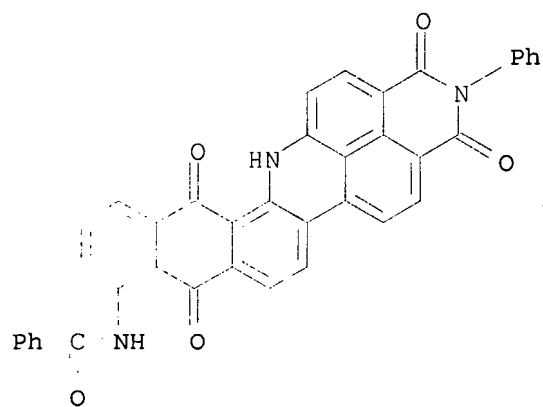
CN Benzamide, N-(1,2,3,8,13,14-hexahydro-2-methyl-1,3,8,13-tetraoxoanthra[1,2-c]benzo[lmn][2,8]phenanthrolin-7-yl)- (9CI) (CA INDEX NAME)



RN 50381-00-5 CAPLUS

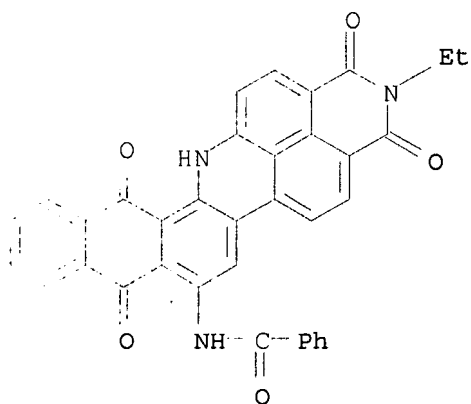
CN Benzamide, N-(1,2,3,8,13,14-hexahydro-1,3,8,13-tetraoxo-2-phenylanthra[1,2-c]benzo[lmn][2,8]phenanthrolin-9-yl)- (9CI) (CA INDEX NAME)

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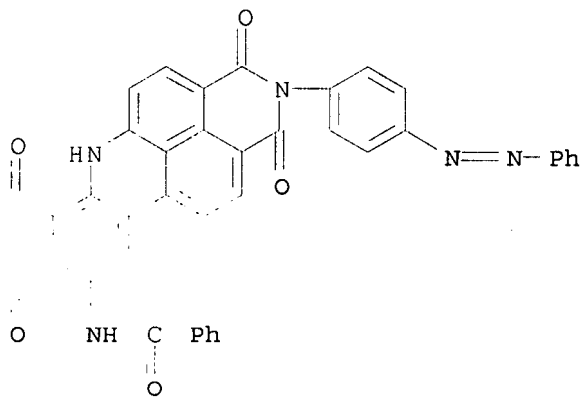
RN 50381-01-6 CAPLUS

CN Benzamide, N-(2-ethyl-1,2,3,8,13,14-hexahydro-1,3,8,13-tetraoxoanthra[1,2-c]benzo[1mn][2,8]phenanthrolin-7-yl) - (9CI) (CA INDEX NAME)



RN 50618-21-8 CAPLUS

CN Benzamide, N-[1,2,3,8,13,14-hexahydro-1,3,8,13-tetraoxo-2-[4-(phenylazo)phenyl]anthra[1,2-c]benzo[1mn][2,8]phenanthrolin-7-yl] - (9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 13:29:28 ON 29 AUG 2007)

FILE 'REGISTRY' ENTERED AT 13:29:47 ON 29 AUG 2007

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 5 S L1 FULL

FILE 'CAPLUS' ENTERED AT 13:30:26 ON 29 AUG 2007

L4 2 S L3

=> d l1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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